

Please type a plus sign (+) in this box →

+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>IDS FORM</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/588,818
				Filed	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	1	of	15	Attorney Docket Number	06439/HG

### U.S. PATENT DOCUMENTS

Exam. Inits*	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion
		7,199,150	B2	NISHI et al.	04-03-2007	
		6,964,976	B2	NISHI et al.	11-15-2005	
		2002/0091105	A1	MANDALA et al.	09-11-2002	
		2007/0149597	A1	NISHI et al.	06-28-2007	
		2007/0142335	A1	NISHI et al.	06-21-2007	
		2007/0105933	A1	NISHI et al.	05-10-2007	

### FOREIGN PATENT DOCUMENTS

Exam Inits*	Cite No <sup>1</sup>	Offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
		WO	02/06268	A1	SANKYO COMPANY, LTD.	01-24-2002		
		WO	02/076995	A2	NOVARTIS	10-03-2002		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Place a check here if English translation is attached.

DATE MAILED: JANUARY 10, 2008

Release type a plus sign (+) inside this box →

+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>IDS FORM</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/588,818
				Filed	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	2	of	15	Attorney Docket Number	06439/HG

**U.S. PATENT DOCUMENTS**

Exam. Inits <sup>*</sup>	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion
		6,004,565	A	CHIBA et al.	12-21-1999	
		6,667,025	B2	CHIBA et al.	12-23-2003	
		2004/0092603	A1	CHIBA et al.	05-13-2004	
		5,604,229		FUJITA et al.	02-18-1997	
		6,214,873	B1	ADACHI et al.	04-10-2001	
		2004/0058894	A1	DOHERTY et al.	03-25-2004	
		2004/0132784	A1	NISHI et al.	07-08-2004	

**FOREIGN PATENT DOCUMENTS**

Exam Inits <sup>*</sup>	Cite No <sup>1</sup>	Offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
		WO	96/06068	A1	YOSHITOMI PHARMACEUTICAL IND	02-29-1996		
		WO	02/18395	A1	MERCK & CO., INC.	03-07-2002		
		JP	11-80026	A	YOSHITOMI PHARMACEUTICAL IND	03-23-1999		*

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Place a check here if English translation is attached.

**DATE MAILED: JANUARY 10, 2008**

**\*English-language abstract enclosed; also JP 11-80026 is a related family member of USP 6,004,565; USP 6,667,025 and US 2004/0092603**

\Please type a plus sign (+) inside this box →

+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>IDS FORM</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/588,818
				Filed	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	3	of	15	Attorney Docket Number	06439/HG

**U.S. PATENT DOCUMENTS**

Exam. Inits*	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion

**FOREIGN PATENT DOCUMENTS**

Exam Inits*	Cite No <sup>1</sup>	Offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
		EP	1 002 792	A1	YOSHITOMI PHARMACEUTICAL IND	05-24-2000		
		JP	2-256612	A	TANABE SEIYAKU CO	10-17-1990		*
		EP	0 297 782	A1	TANABE SEIYAKU CO	01-04-1989		
		JP	9-124564	A	NIKKO RIKA KK	05-13-1997		
		JP	4-104796	A	TAIHO YAKUHHN KOGYO KK`	04-07-1992		
		EP	0 492 497	A2	HOECHST AG	07-01-1992		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Place a check here if English translation is attached.

DATE MAILED: JANUARY 10, 2008

\*English-language abstract enclosed.

Please type a plus sign (+) inside this box →

+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

IDS FORM  INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/588,818
				Filed	August 9, 2008
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	4	of	15	Attorney Docket Number	06439/HG

## U.S. PATENT DOCUMENTS

Exam. Inits*	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion
		2002/0052349	A1	KRAUSS et al.	05-02-2002	
		2003/0216393	A1	BUSCHMANN et al.	11-20-2003	
		2003/0220390	A1	BUSCHMANN et al.	11-27-2003	
		2003/0236297	A1	NISHI et al.	12-25-1003	
		2004/0034063	A1	KO et al.	02-19-2004	
		2004/0082790	A1	DUNCIA et al.	04-29-2004	
		2004/0097508	A1	LUBISCH et al.	05-20-2004	
		3,726,948		BOTTS	04-10-1973	
		4,363,918		ALBERT et al.	12-14-1982	
		4,386,090		MOINET et al.	05-31-1983	
		4,536,601		TUKAMOTO et al	08-20-1985	
		4,613,596		MORONI	09-23-1986	

## FOREIGN PATENT DOCUMENTS

Exam Inits*	Cite No <sup>1</sup>	Offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
		EP	0 125 315	A1	YOSHITOMI PHARMACEUTICAL IND	11-21-1984		
		EP	0 167 459	B1	ROLLAND S.A.	01-08-1986		
		EP	0 300 688	A1	FISONS PIC	01-25-1989		
		EP	0 480 659	B1	MERCK & CO INC	04-15-1992		

Examiner  
SignatureDate  
Considered

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
<sup>1</sup> Unique citation designation number. <sup>2</sup> See kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Place a check here if English translation is attached.

DATE MAILED: JANUARY 10, 2008

Please type a plus sign (+) inside this box →

+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

IDS FORM  INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/588,818
				Filed	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	5	of	15	Attorney Docket Number	06439/HG

## U.S. PATENT DOCUMENTS

Exam. Inits*	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion
		4,634,689		WITKOWSKI et al.	01-06-1987	
		4,667,038		CLARK et al.	05-19-1987	
		4,716,155		KARANEWSKY et al.	12-29-1987	
		4,792,568		AUERBACH	12-20-1988	
		4,888,338		GODFROID et al.	12-19-1989	
		4,977,171		SUZUKI et al.	12-11-1990	
		5,002,966		SKIDMORE et al.	03-26-1991	
		5,037,853		BROOKS et al.	08-06-1991	
		5,037,958		HASHIMOTO et al.	08-06-1991	
		5,039,706		WILKERSON	08-13-1991	
		5,061,704		WIERZBICKI et al.	10-29-1991	
		5,068,247		FUJITA et al.	11-26-1991	

## FOREIGN PATENT DOCUMENTS

Exam Inits*	Cite No <sup>1</sup>	Offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
		EP	0 520 336	A2	FUJIREBIO INC	12-30-1992		
		EP	1 050 301	A1	YOSHITOMI PHARMACEUTICAL IND	11-08-2000		
		EP	1 176 140	B1	MITSUBISHI PHARMA CORP	01-30-2002		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Place a check here if English translation is attached.

DATE MAILED: JANUARY 10, 2008

Please type a plus sign (+) inside this box →

+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

IDS FORM INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number		10/588,818	
				Filed		August 9, 2006	
				First Named Inventor		Takahide NISHI	
				Group Art Unit		1614	
				Examiner Name		Alicia R. HUGHES	
Sheet	6	of	15	Attorney Docket Number		06439/HG	

## U.S. PATENT DOCUMENTS

Exam. Inits*	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion
		5,112,848	A	BROOKS et al.	05-12-1992	
		5,130,487	A	BUNDAI et al.	07-14-1992	
		5,135,947	A	ROBERTSON et al.	08-04-1992	
		5,177,085	A	NAEF	01-05-1993	
		5,219,884	A	FUJITA et al.	06-15-1993	
		5,234,934	A	BUNDAI et al.	08-10-1993	
		5,260,329	A	MONGELLI et al.	11-09-1993	
		5,266,599	A	AUBARD et al.	11-30-1993	
		5,276,190	A	BOESTEN et al.	01-04-1994	
		5,288,751	A	BROOKS et al.	02-22-1994	
		5,433,896	A	KANG et al.	07-18-1995	
		5,470,878	A	MICHNICK et al.	11-28-1995	

## FOREIGN PATENT DOCUMENTS

Exam Inits*	Cite No <sup>1</sup>	offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
		EP	1 319 651	A2	mitsubishi PHARMA CORP.	06-18-2003		
		EP	1 431 275	A1	KYORIN PHARMACEUTICAL	06-23-2004		
		EP	1 431 284	A1	KYORIN PHARMACEUTICAL	06-23-2004		
		GB	1 134 687		MEHTA et al.	11-27-1968		
		GB	2 022 085	A	PFIZER INC	12-12-1979		
		GB	2 054 588	A	SOCIETE INDUSTRIELLE DE PRODUITS DE SYNTHSE	02-18-1981		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Place a check here if English translation is attached.

DATE MAILED: JANUARY 10, 2008

Please type a plus sign (+) inside this box →

+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

IDS FORM INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/588,818
				Filed	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	7	of	15	Attorney Docket Number	06439/HG

## U.S. PATENT DOCUMENTS

Exam. Inits*	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion
		5,501,980	A	KATERINOPOULOS et al.	03-26-1996	
		5,534,539	A	MONGELLI et al.	07-09-1996	
		5,573,909	A	SINGER et al.	11-12-1996	
		5,641,783	A	KLEIN et al.	06-24-1997	
		5,686,479	A	OKUMOTO et al.	11-11-1997	
		5,714,605	A	VAZQUEZ et al.	02-03-1998	
		5,719,176	A	FUJITA et al.	02-17-1998	
		5,732,218	A	HAUGLAND et al.	03-03-1998	
		5,837,703	A	KUMAR et al.	11-17-1998	
		5,891,892	A	CHENG et al.	04-06-1999	
		5,922,770	A	PESCHKE et al.	07-13-1999	

## FOREIGN PATENT DOCUMENTS

Exam Inits*	Cite No <sup>1</sup>	Offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
		JP	1-104087	A	YOSHITOMI PHARMACEUT IND LTD et al.	04-21-1989		*
		JP	3-246264	A	YOSHITOMI PHARMACEUT IND LTD et al.	11-01-1991		*
		JP	5-294907	A	YOSHITOMI PHARMACEUT IND LTD et al.	11-09-1993		*
		JP	6-067229	A	FUJI PHOTO FILM CO LTD.	03-11-1994		
		JP	6-345728	A	NISSAN CHEM IND LTD	12-20-1994		

Examiner Signature	Date Considered
-----------------------	--------------------

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Place a check here if English translation is attached.

DATE MAILED: JANUARY 10, 2008

\*ENGLISH-LANGUAGE ABSTRACT ENCLOSED

Please type a plus sign (+) inside this box →

+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>IDS FORM INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/588,818
				Filed	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	8	of	15	Attorney Docket Number	06439/HG

### U.S. PATENT DOCUMENTS

Exam. Inits*	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion
		5,948,820	A	FUJITA et al.	09-07-1999	
		5,952,316	A	FUJITA et al.	09-14-1999	
		6,013,802	A	HOYLAND et al.	01-11-2000	
		6,028,098	A	GOODMAN et al.	02-22-2000	
		6,077,954	A	COOK et al.	06-20-2000	
		6,121,329	A	FUJII et al.	09-19-2000	
		6,187,821	B1	FUJITA et al.	02-13-2001	
		6,277,888	B1	SAKAI et al.	08-21-2001	
		6,284,915	B2	HIRASE et al.	09-04-2001	
		6,372,800	B1	FUJITA et al.	04-16-2002	

### FOREIGN PATENT DOCUMENTS

Exam Inits*	Cite No <sup>1</sup>	Offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
		JP	7-002665	A	IND TECHNOL RES INST	01-06-1995		*
		JP	7-138230	A	NIPPON SHOJI KK	05-30-1995		*
		JP	10-81623	A	YOSHITOMI PHARMACEUT IND LTD	03-31-1998		*
		JP	11-310556	A	YOSHITOMI PHARMACEUT IND LTD	11-09-1999		
		JP	11-343300	A	TAITO CO LTD ETAL	12-14-1999		

Examiner Signature	Date Considered
--------------------	-----------------

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Place a check here if English translation is attached.

DATE MAILED: JANUARY 10, 2008

\*ENGLISH-LANGUAGE ABSTRACT ENCLOSED



Please type a plus sign (+) inside this box

+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>IDS FORM</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/588,818
				Filed	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	9	of	15	Attorney Docket Number	06439/HG

**U.S. PATENT DOCUMENTS**

Exam. Inits*	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion
		6,437,165	B1	MANDALA et al.	08-20-2002	
		6,444,686	B1	KO et al.	09-03-2002	
		6,455,528	B1	ADACHI et al.	09-24-2002	
		6,462,092	B1	SIKORSKI et al.	10-08-2002	
		6,468,998	B1	KUROITA et al.	10-22-2002	
		6,476,004	B1	SAKAI et al.	11-05-2002	
		6,476,075	B1	SIKORSKI et al.	11-05-2002	
		6,525,069	B1	KO et al.	02-25-2003	
		6,605,744	B2	ABEL et al.	08-12-2003	
		6,630,492	B1	BAUER et al.	10-07-2003	

**FOREIGN PATENT DOCUMENTS**

Exam Inits*	Cite No <sup>1</sup>	Offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
		JP	2002-053575	A	SANKYO CO LTD	02-19-2002		*
		JP	2002-316985	A	SANKYO CO LTD	10-31-2002		*
		JP	2003-267974	A	SANKYO CO LTD	09-25-2003		*
		JP	58-105946	A	TANABE SEIYAKU CO	06-24-1983		
		JP	59-44345	A	TOYO JOZO CO LTD	03-12-1984		

Examiner Signature	Date Considered
-----------------------	--------------------

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Place a check here if English translation is attached.

DATE MAILED: January 10, 2008

\*ENGLISH-LANGUAGE ABSTRACT ENCLOSED

Please type a plus sign (+) inside this box →

+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

IDS FORM  INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/588,818
				Filed	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	10	of	15	Attorney Docket Number	06439/HG

## U.S. PATENT DOCUMENTS

Exam. Inits*	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion
		6,630,493	B1	LUBISCH et al.	10-07-2003	
		6,638,950	B2	DUNCIA et al.	10-28-2003	
		6,649,611	B2	BLUMBERG et al.	11-18-2003	
		6,677,375	B2	SIKORSKI et al.	01-13-2004	
		6,683,099	B2	SIKORSKI et al.	01-27-2004	
		6,686,353	B1	SHIOTA et al.	02-03-2004	
		6,765,023	B2	SIKORSKI et al.	07-20-2004	
		6,476,004	B1	SAKAI et al.	11-05-2002	
		5,604,229	A	FUJITA et al.	02-18-1997	
		6,605,744	B2	ABEL et al.	08-12-2003	

## FOREIGN PATENT DOCUMENTS

Exam Inits*	Cite No <sup>1</sup>	Offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
		JP	62-123126	A	YOSHITOMI PHARMACEUT IND LTD	06-04-1987		*
		JP	63-139179	A	FUJI YAKUHHN KOGYO KK	06-10-1988		*
		WO	00/27798	A1	NOVARTIS	05-18-2000		
		WO	00/33836	A1	ONTOGEN CORP	06-15-2000		
		WO	00/53569	a1	HANGZHOU ZHONGMEI HUADONG PHARMACEUT	09-14-2000		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Place a check here if English translation is attached.

DATE MAILED: JANUARY 10, 2008

\*ENGLISH-LANGUAGE ABSTRACT ENCLOSED

Please type a plus sign (+) inside this box →

+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>IDS FORM</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/588,818
				Filed	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	11	of	15	Attorney Docket Number	06439/HG

### U.S. PATENT DOCUMENTS

Exam. Inits*	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion
		6,214,873	B1	ADACHI et al.	04-10-2001	

### FOREIGN PATENT DOCUMENTS

Exam Inits*	Cite No <sup>1</sup>	offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
		WO	0/01978	A1	WELFIDE CORP	01-11-2001		*
		EP	1 201 236	A1	mitsubishi pharma corp	05-02-2002		
		WO	01/08685	A1	VERTEX PHARMACEUTICALS INC	02-08-2001		
		WO	01/49663	A2	REGENTS OF THE UNIVERSITY OF CALIFORNIA	07-12-2001		
		WO	01/49685	A2	TEXAS BIOTECH CORP	07-12-2001		
		WO	02/067915	A1	NOVARTIS AG	09-06-2002		
		WO	02/094342	A2	VAPOTRONICS INC	11-28-2002		
		WO	03/009836	A2	NOVARTIS AG	02-06-2003		
		WO	03/013509	A1	MELACURE THERAPEUTICS AB	02-20-2003		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Place a check here if English translation is attached.

DATE MAILED: JANUARY 10, 2008

\*EP 1 201 236 IS A RELATED FAMILY MEMBER OF WO 01/01978

Please type a plus sign (+) inside this box →

+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>IDS FORM</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/588,818
				Filed	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	12	of	15	Attorney Docket Number	06439/HG

**U.S. PATENT DOCUMENTS**

Exam. Inits*	Cite No <sup>1</sup>	Document Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion

**FOREIGN PATENT DOCUMENTS**

Exam Inits*	Cite No <sup>1</sup>	Offc <sup>3</sup>	Document Number <sup>4</sup>	Kind Code <sup>5</sup>	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T <sup>6</sup>
		WO	03/029205	A1	KYORIN PHARMACEUT	04-10-2003		*
		WO	03/035068	A1	NOVARTIS PHARMA GMBH	05-01-2003		
		WO	03/044015	A2	INSTITUTES FOR PHARMACEUTICAL DISCOVERY, LLC	05-30-2003		
		WO	03/097028	A1	NOVARTIS PHARMA GMBH	11-27-2003		
		WO	2004/024673	A1	NOVARTIS AG	03-25-2004		
		WO	2004/028521	A2	NOVARTIS AG	04-08-2004		
		WO	93/09185	A1	MOLECULAR PROBES INC	05-13-1993		
		WO	98/15278	A1	SMITHKLINE BEECHAM	04-16-1998		
		WO	94/08943	A1	YOSHITOMI PHARMACEUT IND LTD	04-28-1994		**
		WO	98/45249	A1	YOSHITOMI PHARMACEUT IND LTD	10-15-1998		***
		WO	98/22100	A2	COTTENS et al.	05-28-1998		

Examiner Signature	Date Considered
-----------------------	--------------------

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Place a check here if English translation is attached.

**DATE MAILED: JANUARY 10, 2008**

**\*US 2004/0254222 IS A RELATED FAMILY MEMBER OF 03/029205**

**\*\*USP 5,604,229 IS A RELATED FAMILY MEMBER OF WO 94/08943**

**\*\*\*USP 6,214,873 IS A RELATED FAMILY MEMBER OF WO 98/45249**

Please type a plus sign (+) inside this box →



U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>IDS FORM</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/588,818
				Filing Date	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	13	of	15	Attorney Docket Number	06439/HG
<b>OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of author (in CAPITAL LETTERS), title of article, title of item, date, page(s), volume-issue number(s), publisher, city and/or country where published			T <sup>2</sup>
		<p>CATIVIELA et al., "Stereoselective synthesis of quaternary <math>\alpha</math>-amino acids, Part 1: Acyclic compounds", <u>Tetrahedron: Asymmetry</u>, <u>9</u>, pp. 3517-3599 (1998).</p> <p>GANDER-COQUOZ et al., "Synthesis of Enantiomerically Pure, <math>\alpha</math>-Alkylated Lysine, Ornithine, and Tryptophan Derivatives", <u>Helvetica Chimica Acta</u>, <u>71</u>, pp. 224-236, (1988).</p> <p>SANO et al., "Lewis Acid- and Cationic Lithium-Mediated Diastereoselective Aldol-Type Reaction Based on a Double Chiral Recognition Manner for the Asymmetric Synthesis of <math>\alpha</math>-Substituted Serines", <u>Tetrahedron Letters</u>, <u>36</u>, No. 23, pp. 4101-4104 (1995)</p> <p>NAGAO et al., "Efficient Preparation of New Chiral Synthons Useful for (+)-Carbacynclin Synthesis by Utilizing Enzymatic Hydrolysis", <u>Chemistry Letters</u>, pp. 239-242 (1989).</p> <p>TAMAI et al., "Enzymatic Hydrolyses of the <math>\delta</math>-Symmetric Dicarboxylic Diesters Bearing a Sulfinyl Group as the Prochiral Center, <u>Chemistry Letters</u>, pp. 2381-2384 (1994).</p> <p>CASARRUBIO et al., "On the Syntheses of Thiophene Analogs of Practolol and 'Reversed' Practolol", <u>J. Heterocyclic Chem.</u>, <u>20</u>, 1557-1560 (1983).</p> <p>CHARETTE et al., "Syntheses of <math>\alpha</math>, <math>\alpha</math>-Disubstituted-<math>\alpha</math>-Amino Acids by Double Nucleophilic Addition to Cyanohydrins", <u>Tetrahedron Letters</u>, <u>39</u>, 5147-5150 (1998).</p>			
Examiner Signature				Date Considered	

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Place a check here if English translation is attached.

DATE MAILED: JANUARY 10, 2008



IDS FORM  INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/588,818
				Filing Date	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	14	of	15	Attorney Docket Number	06439/HG

## OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of author (in CAPITAL LETTERS), title of article, title of item, date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		<p>ADACHI et al., "Design, Synthesis, and Structure-Activity Relationships of 2-Substituted-2-Amino-1,3-Propanediols: Discovery of a Novel Immunosuppressant, FTY720," <u>Bioorganic &amp; Medicinal Chemistry Letters</u>, Vol. 5, No. 8, pp. 853-856, 1995.</p> <p>CHIBA et al., "FTY720: Immunosuppressant," <u>Drugs of the Future</u>, 22(1):18-22 (1997).</p> <p>CONSTANTINOU-KOKOTOU et al., "Synthesis of optically active lipidic <math>\alpha</math>-amino acids and lipidic 2-amino alcohols," <u>Amino Acids</u>, (1999) 16:273-285.</p> <p>CONSTANTINOU-KOKOTOU et al., "Synthesis and biological activities of long chain 2-amino alcohols," <u>Letters in Peptide Science</u>, 9:143-152, 2002.</p> <p>DAGAN et al., "Synthetic, non-natural sphingolipid analogs inhibit the biosynthesis of cellular sphingolipids, elevate ceramide and induce apoptotic cell death," <u>Biochimica et Biophysica Acta</u>, 1633(3):161-169 (2003).</p> <p>FUJITA et al., "Simple Compounds, 2-Alkyl-2-Amino-1,3-Propanediols Have Potent Immunosuppressive Activity," <u>Bioorganic &amp; Medicinal Chemistry Letters</u>, Vol. 5, No. 8, pp. 847-852, 1995.</p> <p>FUJITA et al., "2-Substituted 2-Aminoethanol: Minimum Essential Structure for Immunosuppressive Activity of ISP-I (Myriocin)," <u>Bioorganic &amp; Medicinal Chemistry Letters</u>, Vol. 5, No. 16, pp. 1857-1860, 1995.</p> <p>FUJITA et al., "2-Aminoalcohol: Minimum essential structure of immunosuppressive activity of ISP-I (myriocin)," <u>Tennen Yuki Kagobutsu Toronkai Koen Yoshisyu</u>, 38:727-732 (1996).</p> <p>FUJITA et al., "Potent Immunosuppressants, 2-Alkyl-2-aminopropane-1,3-diols," <u>J. Med. Chem.</u>, 1996, 39, 4451-4459.</p> <p>FUJITA et al., "Design of Novel Immunosuppressants Based on Fungal Metabolites," <u>International Symposium on Natural Medicines</u>, PL-1, p. 3-4, 1997, Kyoto, Japan.</p> <p>HINTERDING et al., "Synthesis of Chiral Analogues of FTY720 and its Phosphate," <u>Synthesis</u> 2003, No. 11, 1667-1670, 2003.</p> <p>HINTERDING et al., "First asymmetric synthesis of chiral analogues of the novel immunosuppressant FTY720," <u>Tetrahedron Letters</u>, 43 (2002) 8095-8097.</p>	0
Examiner Signature		Date Considered	

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Place a check here if English translation is attached.

DATE MAILED: JANUARY 10, 2008 \*ENGLISH-LANGUAGE ABSTRACT ENCLOSED

Please type a plus sign (+) inside this box →



U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>IDS FORM</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/588,818
				Filing Date	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	15	of	15	Attorney Docket Number	06439/HG

**OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of author (in CAPITAL LETTERS), title of article, title of item, date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		<p>HIROSE et al., "2-Aminoalcohol Immunosuppressants: Structure-Activity Relationships," <u>Bioorganic &amp; Medicinal Chemistry Letters</u>, Vol. 6, No. 22, pp. 2647-2650, 1996.</p> <p>KLEY et al., "Synthesis and PLA<sub>2</sub>-Inhibitory Properties of 2(R)-Acetamido-Alkylphosphomethanols with a Variable Aggregate Anchor," <u>Bioorganic &amp; Medicinal Chemistry Letters</u>, 9 (1999) 261-264.</p> <p>MAIER et al., "Organic Phosphorus Compounds 93. Preparation, Properties and Herbicidal Activity of 2-Substituted 5-Phenoxy- and 5-Pyridyloxy-Phenylaminoalkyl-Phosphonic- and -Phosphinic Acid - as well as - Phosphine Oxide Derivatives," <u>Phosphorus, Sulfur and Silicon</u>, 56 (1-4): 5-15 (1991).</p> <p>U.S. Application No. 11/922,429 deposited December 18, 2007, Confirmation No. 6507.</p>	
Examiner Signature		Date Considered	

\* EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Place a check here if English translation is attached.

DATE MAILED: JANUARY 10, 2008